



IFWP

RAW SEQUENCE LISTING DATE: 01/18/2006
 PATENT APPLICATION: US/09/980,845A TIME: 15:36:00

Input Set : A:\seqlistcorrected.2002.06.21.txt
 Output Set: N:\CRF4\01182006\I980845A.raw

3 <110> APPLICANT: Handfield, Martin
 4 Brady, Jeannine
 5 Progulsk-Fox, Ann
 6 Hillman, Jeffrey D.
 8 <120> TITLE OF INVENTION: Microbial Polynucleotides Expressed During Infection of
 9 a Host
 11 <130> FILE REFERENCE: MBHB00-505B
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/980,845A
 C--> 14 <141> CURRENT FILING DATE: 2001-11-15
 16 <150> PRIOR APPLICATION NUMBER: 60/147,551
 17 <151> PRIOR FILING DATE: 1999-08-06
 19 <150> PRIOR APPLICATION NUMBER: PCT/US00/21340
 20 <151> PRIOR FILING DATE: 2000-08-04
 22 <160> NUMBER OF SEQ ID NOS: 20
 24 <170> SOFTWARE: PatentIn Ver. 2.1
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 849
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Actinobacillus actinomycetemcomitans
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 32 <221> NAME/KEY: misc_feature
 33 <222> LOCATION: (566)
 34 <223> OTHER INFORMATION: N stands for any nucleotide.
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 57 <221> NAME/KEY: misc_feature
 58 <222> LOCATION: (656)
 59 <223> OTHER INFORMATION: N stands for any nucleotide.

**Does Not Comply
 Corrected Diskette Needed**

P.4

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61 <220> FEATURE:
62 <221> NAME/KEY: misc_feature
63 <222> LOCATION: (661)
64 <223> OTHER INFORMATION: N stands for any nucleotide.
66 <220> FEATURE:
67 <221> NAME/KEY: misc_feature
68 <222> LOCATION: (672)
69 <223> OTHER INFORMATION: N stands for any nucleotide.
71 <220> FEATURE:
72 <221> NAME/KEY: misc_feature
73 <222> LOCATION: (681)
74 <223> OTHER INFORMATION: N stands for any nucleotide.
76 <220> FEATURE:
77 <221> NAME/KEY: misc_feature
78 <222> LOCATION: (720)
79 <223> OTHER INFORMATION: N stands for any nucleotide.
81 <220> FEATURE:
82 <221> NAME/KEY: misc_feature
83 <222> LOCATION: (723)
84 <223> OTHER INFORMATION: N stands for any nucleotide.
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88 tggtcggttc gtccagaata tacagggttt tgcccgatc ccgtttggag agttccgtcg 120
89 ccagtttcac ccgttgcgct tccccgccgg acagggtggt agaggattgc cccaagcgaa 180
90 tataagacaa gccacgtca atcagggttt gcaatttac cgcaatcatt ggaatggcat 240
91 cgaaaaactc gcgcgcacat tccaccgtca tgtccagcac ctgatgaatg gttttacctt 300
92 tgtagcggat ttccagggtt tcgcgattgt aacgcttgcc tttacattgg tcgcaaggca 360
93 cgtacacatc gggcaggaag tgcatttcca ctttgattac gccgtcgccc tggcaggctt 420
94 acagcgcccg ccgcgcacgt taaaactgaa acgccccggg ttataaccgc gcgcacgggc 480
95 tttcggtagc ccggcaaaaca attcgcgaat cggcgtgaat acgcccgtgt aagttgcccg 540
W--> 96 gttggagcgt ggcgtgcgtc caatcngget ttggttaata tcaatacttt atcgaaaaat 600
97 tccaaacctt taatggactt gtacngngaa acctcngcat tttctgcacn attaanccgt 660
98 nttgtgcaat anggaacaaa ntgtcgtaa tcagtgtaga atttacctta accggacacn 720
99 ccngtgatgc aggtaaataa gccacggga atgtctaaat tgacgttttt caggttggtt 780
100 ccggaagcgc cgaacaattt gagcattttt ttcttatcaa gtgcggtacg ttttttcggt 840
101 atttcgatc 849
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105 <211> LENGTH: 357
106 <212> TYPE: DNA
107 <213> ORGANISM: Actinobacillus actinomycetemcomitans
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111 cattgcgtta acgtctaaat cacctttaga cactgcagtg tttggcaagg cgtagtcatg 120
112 aataaaacgt attctacgtc taagttgtat ttttcttttg ccactttcgc tgcgatttca 180
113 gccacttggt gttccgggtc tgccatcacg ccacttttga ttggtgccgg ggcttctgcc 240
114 gccggtttgt ctgccggtgc ggcttcgggt tttttctctt cattacaagc ccgttaaggc 300
115 gaatacggag gctaattgtt cgacgcctaa taattttttt caagttcata aaagatc 357
118 <210> SEQ ID NO: 3
119 <211> LENGTH: 886

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61 <220> FEATURE:
62 <221> NAME/KEY: misc_feature
63 <222> LOCATION: (661)
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73 <222> LOCATION: (681)
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79 <223> OTHER INFORMATION: N stands for any nucleotide.
81 <220> FEATURE:
82 <221> NAME/KEY: misc_feature
83 <222> LOCATION: (723)
84 <223> OTHER INFORMATION: N stands for any nucleotide.
86 <400> SEQUENCE: 1
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88 tggtcggttc gtccagaata tacagggttt tgcccgtatc ccgtttggag agttccgctg 120
89 ccagtttcac ccgttgcgct tccccgccgg acagggtggt agaggattgc cccaagcgaa 180
90 tataagacaa gccacgtca atcagggttt gcaatttacg cgcaatcatt ggaatggcat 240
91 cgaaaaactc gcgcgcattc tccaccgtca tgtccagcac ctgatgaatg gttttacctt 300
92 tgtagcggat ttccagggtt tcgcgattgt aacgcttgcc ttacattgg tcgcaaggca 360
93 cgtacacatc gggcaggaag tgcatttcca ctgtgattac gccgtcgccc tggcaggctt 420
94 acagcgcccc ccgcgcacgt taaaactgaa acgccccggg ttataaccgc gcgcacgggc 480
95 tttcggtagc ccggcaaaaca attcgcgaat cggcgtgaat acgcccgtgt aagttgcccg 540
W--> 96 gttggagcgt ggcgtgcgtc caatcnggct ttggttaata tcaatacttt atcgaaaaat 600
97 tccaaacctt taatggactt gtacngngaa acctcngcat tttctgcacn attaangcgt 660
98 nttgtgcaat anggaacaaa ntgtcgtaa tcagtgtaga atttacctta accggacacn 720
99 cngtgatgc aggtaaataa gccacggga atgtctaaat tgacgttttt caggttggtta 780
100 ccggaagcgc cgaacaattt gagcattttt ttcttatcaa gtgcggtacg ttttttcggt 840
101 atttcgatc 849
104 <210> SEQ ID NO: 2
105 <211> LENGTH: 357
106 <212> TYPE: DNA
107 <213> ORGANISM: Actinobacillus actinomycetemcomitans
109 <400> SEQUENCE: 2
110 gatcactaag ttgttcaatc ctttcgcttg ggaatctttg tctaaatacg gtttatgttg 60
111 cattgcgtta acgtctaaat cacctttaga cactgcagtg tttggcaagg cgtagtcatg 120
112 aataaaacgt attctacgtc taagttgtat ttttcttttg ccactttcgc tgcgatttca 180
113 gccacttggg gttccgggtc tgccatcacg ccacttttga ttggtgccgg ggcttctgcc 240
114 gccggtttgt ctgccgggtg ggcttccggt tttttctctt cattacaagc ccgttaaggc 300
115 gaatacggag gctaattgtg cgacgcctaa taattttttt caagttcata aaagatc 357
118 <210> SEQ ID NO: 3
119 <211> LENGTH: 886

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Input Set : A:\seqlistcorrected.2002.06.21.txt
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120 <212> TYPE: DNA
 121 <213> ORGANISM: Actinobacillus actinomycetemcomitans
 123 <220> FEATURE:
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 126 <223> OTHER INFORMATION: N stands for any nucleotide.
 128 <220> FEATURE:
 129 <221> NAME/KEY: misc_feature
 130 <222> LOCATION: (596)
 131 <223> OTHER INFORMATION: N stands for any nucleotide.
 133 <400> SEQUENCE: 3
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 135 ggcggtcggc aacggcatgg tagggcgacg ccggtggttta aaccaagcca aagcgggaatg 120
 136 gcgcttattt aagctaaaac accatcttgg cattcaggga tttttatccg ggctattcac 180
 137 ttttgtcctg cgttcgggtg ccagattatt gccgacatca ttactgaaaa acatctatca 240
 138 aaccttttta agaaaataac atgatgaaat taaactgtat tttaaaaata tccggaattt 300
 139 ccaccgcact ttttctagcg ggttggtcct caaattcaag tgcgccgacg caatcctctg 360
 140 agcaggcgaa ttctgttacg gctgtgaatc ccactgcggt gtacagtaag ccccgcaactt 420
 141 tggataactt caacgattat gtgaatttct taaaaggtaa agcagcggca gaaggcggtt 480
 142 ctgccgacgt attgaatgca caaaataata ttaattatat tcaaaaatcc gtggatttgg 540
 W--> 143 acgatcaaca agcnggcaga attcgcaagc gtgatccaaa tgccccgcgc atcatnaatt 600
 144 ccgaacggca cgaccaatta cttaaactgt gtattaacca agaataaagt agacacggca 660
 145 gaagcacgtt attgggaaca attgccgcag cttgaaaatg cttcaaagaa attcagcgta 720
 146 ccgaaaaatt atctgtttacg cttgtggggc atggagagta gctttggcta ttatcagggc 780
 147 aattacgatg tgttatccac cttagccact cttgcttttg acggacgccg tgaagcctta 840
 148 ttcagcaaag aattcatcgc cgccatgaaa atgctacagc gcgatc 886
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 154 <213> ORGANISM: Actinobacillus actinomycetemcomitans
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 158 <222> LOCATION: (4)
 159 <223> OTHER INFORMATION: N stands for any nucleotide.
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 168 <222> LOCATION: (21)
 169 <223> OTHER INFORMATION: N stands for any nucleotide.
 171 <220> FEATURE:
 172 <221> NAME/KEY: misc_feature
 173 <222> LOCATION: (23)
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 176 <220> FEATURE:
 177 <221> NAME/KEY: misc_feature
 178 <222> LOCATION: (29)

RAW SEQUENCE LISTING

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179 <223> OTHER INFORMATION: N stands for any nucleotide.
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182 <221> NAME/KEY: misc_feature
183 <222> LOCATION: (32)
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187 <221> NAME/KEY: misc_feature
188 <222> LOCATION: (35)..(36)
189 <223> OTHER INFORMATION: N stands for any nucleotide.
191 <220> FEATURE:
192 <221> NAME/KEY: misc_feature
193 <222> LOCATION: (39)
194 <223> OTHER INFORMATION: N stands for any nucleotide.
196 <220> FEATURE:
197 <221> NAME/KEY: misc_feature
198 <222> LOCATION: (42)
199 <223> OTHER INFORMATION: N stands for any nucleotide.
201 <220> FEATURE:
202 <221> NAME/KEY: misc_feature
203 <222> LOCATION: (45)
204 <223> OTHER INFORMATION: N stands for any nucleotide.
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <222> LOCATION: (49)
209 <223> OTHER INFORMATION: N stands for any nucleotide.
211 <220> FEATURE:
212 <221> NAME/KEY: misc_feature
213 <222> LOCATION: (52)
214 <223> OTHER INFORMATION: N stands for any nucleotide.
216 <220> FEATURE:
217 <221> NAME/KEY: misc_feature
218 <222> LOCATION: (58)
219 <223> OTHER INFORMATION: N stands for any nucleotide.
221 <220> FEATURE:
222 <221> NAME/KEY: misc_feature
223 <222> LOCATION: (61)..(62)
224 <223> OTHER INFORMATION: N stands for any nucleotide.
226 <220> FEATURE:
227 <221> NAME/KEY: misc_feature
228 <222> LOCATION: (65)
229 <223> OTHER INFORMATION: N stands for any nucleotide.
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (69)
234 <223> OTHER INFORMATION: N stands for any nucleotide.
236 <220> FEATURE:
237 <221> NAME/KEY: misc_feature
238 <222> LOCATION: (73)
239 <223> OTHER INFORMATION: N stands for any polynucleotide.

"N" can only
represent a
single
nucleotide

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Input Set : A:\seqlistcorrected.2002.06.21.txt
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253 <222> LOCATION: (138)
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261 <220> FEATURE:
262 <221> NAME/KEY: misc_feature
263 <222> LOCATION: (459)
264 <223> OTHER INFORMATION: N stands for any nucleotide.
266 <220> FEATURE:
267 <221> NAME/KEY: misc_feature
268 <222> LOCATION: (467)
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271 <400> SEQUENCE: 4
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273 nngcnaggng canagctta ctttgccga cgggtcnctg tntgaaagcg ccattcgcaa 120
274 agtgccggtg gaggcggnga aaattcactc acttggtgcg gaaggcaatg atgtgggatt 180
275 gaaagcccat catggcgggt ggataaagcg ttatttttta tgtcggcaga tgcctttcct 240
276 gcgttaaatg cgttattaga cgaaaatttt tcgtatcagg acacagcagt ttacggcgag 300
277 aattttgtgg ttccgcgct gaatgaagat tccgtgtgtg tgggcgatat ttatcaaatc 360
278 ggctcctgcg tgggtggaggt gtcgcagccg cgtaaaccctt gtgagcgctt atcgaaaaat 420
279 accaataatc cgaacacgca acaaaccgtg tacgctncng ctggtcnggc tggatatgtgc 480
280 cgggtgtacc ccaaggggga aattcaa 507
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285 <212> TYPE: DNA
286 <213> ORGANISM: Actinobacillus actinomycetemcomitans
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289 <221> NAME/KEY: misc_feature
290 <222> LOCATION: (622)
291 <223> OTHER INFORMATION: N stands for any nucleotide.
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294 <221> NAME/KEY: misc_feature
295 <222> LOCATION: (642)
296 <223> OTHER INFORMATION: N stands for any nucleotide.
298 <220> FEATURE:
299 <221> NAME/KEY: misc_feature
300 <222> LOCATION: (661)

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/18/2006
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Input Set : A:\seqlistcorrected.2002.06.21.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 566,625,627,636,650,656,661,672,681,720,723

Seq#:3; N Pos. 554,596

Seq#:4; N Pos. 4,8,21,23,29,32,35,36,39,42,45,49,52,58,61,62,65,69,73,97

Seq#:4; N Pos. 102,138,457,459,467

Seq#:5; N Pos. 622,642,661,669,685,690,700

Seq#:6; N Pos. 609,614,651,665

Seq#:7; N Pos. 532,630,696,710,722,725

Seq#:8; N Pos. 538

Seq#:12; N Pos. 131,151,170,178,194,199,209

Seq#:18; Xaa Pos. 43,50,59,66,69

VERIFICATION SUMMARY

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Input Set : A:\seqlistcorrected.2002.06.21.txt

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L:13 M:270 C: Current Application Number differs, Replaced Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:540
M:341 Repeated in SeqNo=1
L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:540
L:272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:600
M:341 Repeated in SeqNo=5
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:600
M:341 Repeated in SeqNo=6
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:480
M:341 Repeated in SeqNo=7
L:456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:480
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:120
M:341 Repeated in SeqNo=12
L:709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:32
M:341 Repeated in SeqNo=18